Title (en)

IMPROVED CR(III) BASED DRY-IN-PLACE COATING COMPOSITION FOR ZINC COATED STEEL

Title (de)

VERBESSERTE TROCKENBESCHICHTUNGSZUSAMMENSETZUNG AUF CR(III)BASIS FÜR ZINKBESCHICHTETEN STAHL

Title (fr)

COMPOSITION DE REVÊTEMENT À SEC À BASE DE CR(III) AMÉLIORÉE POUR ACIER REVÊTU DE ZINC

Publication

EP 4284964 A1 20231206 (EN)

Application

EP 22702615 A 20220117

Priority

- GB 202101371 A 20210201
- EP 2022050910 W 20220117

Abstract (en)

[origin: GB2603194A] An aqueous passivation composition for the treatment of zinc or zinc alloy coatings has a pH of less than 3 and comprises a source of trivalent chromium ions, an alpha hydroxycarboxylic acid, phosphoric acid, at least one compound having both a thiol group and a carboxyl group, and at least one water-soluble or water-dispersible fluoroacid comprising titanium, zirconium, hafnium, silicon, tin, aluminium, germanium or boron or a salt thereof, wherein the composition is substantially free of nitrate anions and is substantially free of hexavalent chromium. A process for imparting a chromate passivation film to a substrate having a zinc or zinc alloy coating applied thereto comprises contacting a surface of the coating with the composition of the invention at a temperature of between 20 and 90 degrees C.

IPC 8 full level

C23C 22/36 (2006.01); **C23C 22/38** (2006.01)

CPC (source: EP GB US)

C23C 22/06 (2013.01 - GB); **C23C 22/08** (2013.01 - GB); **C23C 22/34** (2013.01 - US); **C23C 22/361** (2013.01 - EP); **C23C 22/38** (2013.01 - EP); C23C 2222/10 (2013.01 - EP US)

Citation (search report)

See references of WO 2022161806A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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